

METHOD AND SYSTEM FOR HITLESS WIRELESS ROAMING IN A MOBILE ENVIRONMENT

ABSTRACT OF THE INVENTION

5       A method and system for hitless wireless roaming in a mobile environment. The present invention describes a system for wireless connectivity in fast moving trains. The system comprises a router for routing Internet Protocol (IP) communication signals to and from a wireless network. The 10 router is located on an object. A first antenna is also located on the object and is communicatively coupled to the router for transmitting the communication signals to and from a plurality of access points on the wireless network. A second antenna is also communicatively coupled to the router 15 for transmitting the communication signals to and from the plurality of access points. The second antenna is positioned a distance from the first antenna on the object that allows the router continuous access to the wireless network as the first antenna and the second antenna roam through the 20 wireless network while the object is moving.